

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/04229

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L25/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 938 215 A (PC TEL INC) 25 August 1999 (1999-08-25) paragraph '0002! paragraph '0007!	1-7
A	US 4 363 977 A (TSUDA TOSHITAKA ET AL) 14 December 1982 (1982-12-14) column 3, line 48 -column 4, line 54	1-7

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

15 December 2003

Date of mailing of the international search report

29/12/2003

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0938215	A	25-08-1999	US 6324232 B1	27-11-2001
			DE 938215 T1	17-08-2000
			EP 0938215 A2	25-08-1999
			JP 11340877 A	10-12-1999
<hr/>				
US 4363977	A	14-12-1982	JP 1460108 C	28-09-1988
			JP 56117457 A	14-09-1981
			JP 59041343 B	06-10-1984
			JP 1507398 C	26-07-1989
			JP 57011515 A	21-01-1982
			JP 63052503 B	19-10-1988
			CA 1175919 A1	09-10-1984
			CA 1175920 A2	09-10-1984
			DE 3105758 A1	28-01-1982
			FR 2476323 A1	21-08-1981
			GB 2070375 A ,B	03-09-1981
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